

**Amendments to the Specification:**

► Please amend [0015] as follows:

-- (Amended) Furthermore, a novel mutant inserted yellow fluorescence protein named as Peridot (SEQ.ID No.: 2), which has additional mutation of replacement of 192nd amino acid of Proline with Leucine ~~Lysine~~ (P192L), is provided. --

► Please replace the sequence listing immediately after [0041] with the following replacement sequence listing:

SEQUENCE LISTING

<110> Neurogenex Co., Ltd.  
<120> ENHANCED INSERTED YELLOW FLUORESCENCE PROTEIN AND ITS  
<130> 100528.0007US1  
<140> US 10/506,925  
<141> 2004-09-07  
<150> KR10-2002-0012409  
<151> 2002-03-08  
<150> KR10-2002-0015217  
<151> 2002-03-21  
<150> KR10-2002-0015219  
<151> 2002-03-21  
<160> 16  
<170> PatentIn version 3.4  
  
<210> 1  
<211> 245  
<212> PRT  
<213> Artificial Sequence  
<220>  
<223> y-citrine of fluorescence protein  
<400> 1

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Amdt. dated Jun. 13, 2007  
Reply to Office action of Jan. 16, 2007

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Val Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly			
20	25	30	
Glu Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile			
35	40	45	
Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr			
50	55	60	
Phe Gly Tyr Gly Leu Met Cys Phe Ala Arg Tyr Pro Asp His Met Lys			
65	70	75	80
Gln His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu			
85	90	95	
Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu			
100	105	110	
Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly			
115	120	125	
Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr			
130	135	140	
Asn Tyr Gly Gly Ser Gly Ala Ser Asn Ser His Asn Val Tyr Ile Met			
145	150	155	160
Ala Asp Lys Gln Lys Asn Gly Ile Lys Val Asn Phe Lys Ile Arg His			
165	170	175	
Asn Ile Glu Asp Gly Ser Val Gln Leu Ala Asp His Tyr Gln Gln Asn			
180	185	190	
Thr Pro Ile Gly Asp Gly Pro Val Leu Leu Pro Asp Asn His Tyr Leu			
195	200	205	
Ser Tyr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp His			
210	215	220	
Met Val Leu Leu Glu Phe Val Thr Ala Ala Gly Ile Thr Leu Gly Met			
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Asp Glu Leu Tyr Lys			
245			

<210> 2

<211> 245

<212> PRT

<213> Artificial Sequence

<220>

<223> Peridot of fluorescence protein

<400> 2

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20 25 30

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35 40 45

Cys Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr

50 55 60

Phe Gly Tyr Gly Leu Met Cys Phe Ala Arg Tyr Pro Asp His Met Lys

65 70 75 80

Gln His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu

85 90 95

Arg Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu

100 105 110

Val Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly

115 120 125

Ile Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr

130 135 140

Asn Tyr Gly Gly Ser Gly Ala Ser Asn Ser His Asn Val Tyr Ile Met

145 150 155 160

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Ser Tyr Gln Ser Ala Leu Ser Lys Asp Pro Asn Glu Lys Arg Asp His  
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Asp Glu Leu Tyr Lys  
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<211> 45

<212> DNA

<213> Artificial Sequence

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<223> Nhe1/5AB-R primer

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<211> 30

<212> DNA

<213> Artificial Sequence

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<211> 30

<212> DNA

<213> Artificial Sequence

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<211> 39

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<210> 9

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> BamHI,NheI/Yins-F primer

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33

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aagctggagt acaactacgg tggatccatg catgaccaac tgacagaaga gcagatcgca 480

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<213> Artificial Sequence

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<223> BamHI/DEVD F primer

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<213> Artificial Sequence

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<223> NheI/DEVD R primer

<400> 15

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<213> Artificial Sequence

<220>

<223> DEVDins of Bio-sensor

<400> 16

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